October 6, 1999

Outreach and Information Dissemination

Scheduled Events

Opening Doors in the Solar Marketplace, Utility PV Experience Conference and Exhibition, October 4 -6, 1999
Tucson, Arizona

Celebration of NESEA's 25th Anniversary, October 9, 1999
Greenfield, Massachusetts

Dedication of 132 kW commercial solar plant by Green Mountain Power with GPU Solar, AstroPower & PowerLight at Real Goods Solar Living Center, October 14, 1999
Hopland, California

Dedication of Karl Böer's 12 ½ kWe residence home, October 18, 1999
Newark, Delaware

American Solar Energy Association; Solar Home Tour, October 16, 1999
> 100 Communities in 42 States, http://www.ases.org/hometr/index.html

PV Performance Reliability and Standards Workshop, October 18 - 21, 1999
Vail, Colorado

Dedication of the Gateway Center visitors center for the Disney Nature Conservancy preserve, Solar Design Associates, 6.5 kw standing seam PV roofing, October 30, 1999
Orlando, Florida

International Energy Agency (IEA) Executive Conference, November 3-5, 1999
Venice, Italy

Dedication of 10 kW PV system at the Native American Cultural Center, November 17, 1999

Albuquerque, New Mexico

Dedication of the 4 Times Square Building, December 31, 1999
New York, New York

National Western Stock Show, January 2000
Denver, Colorado

Building Energy 2000: From Kyoto to the Marketplace, Yale University, March 15 - 18, 2000
New Haven, Connecticut

Earthday, Celebration of 30th Anniversary, April 2000
Around the World, http://www.earthday.net/

SOLTECH 2000, April 19 - 22, 2000
Washington, D.C.
16th European Photovoltaic Solar Energy Conference and Exhibition, May 1 - 5, 2000
Glasgow, United Kingdom

12th Annual NESEA American Tour de Sol, May 2000
New England

FEMA 2000 Technology Partnership for Energy Management Workshop and Exhibition, June - 15, 2000
Colorado Springs, Colorado

American Solar Energy Society Meeting (ASES), SOLAR 2000: Solar Powers Life - Share the Energy, June 16 - 21, 2000
Madison, Wisconsin

World Renewable Energy Congress VI WREC2000, July 1 - 7, 2000
Brighton, United Kingdom

Solar Independence, Solar Flag exhibit on the Mall, July 4, 2000
Washington, D.C.

Summer Olympics, more than 650 dwellings will be built and all will have advanced solar power and solar water heating systems, September 15 - October 1, 2000,
Sydney, Australia

Photovoltaic Applications in Cold Climates Workshop, September 15 & 16, 2000
Anchorage, Alaska

IEEE Photovoltaic Specialist meeting, September 18 - 22, 2000
Anchorage, Alaska

SOLAR 2001, April 2001
Washington, D.C.

SunRayce, June 2001
Date, route and sponsor yet to be determined

Winter Olympics, February 8 - 24, 2002, activity to be determined
Salt Lake City, Utah, http://www.slc2002.org/info/index.html

Unscheduled Events

Competition for the Forrestal WALL, American Institute of Architects, October 1999 - October 2000
Washington, D.C.
Dedication of 10 MW BP Solarex amorphous silicon manufacturing facility
Toano, Virginia

Dedication of 10 MW Solec silicon manufacturing facility
Los Angeles, California

Dedication of new 10 MW CIS Siemens manufacturing facility (This could be combined with an announcement of Siemens R&D 100 Award)
Camarillo, California

The largest commercial (340 kW) rooftop solar-power project in North and South America will be unveiled this fall, the result of an innovative public/private sector partnership focused on cost-effective technologies to achieve environmental stewardship goals.
Pleasanton, California

Dedication of new 10 MW PowerLight PV roof tiles manufacturing facility
Berkeley, California

Dedication of new Global Solar CIS manufacturing facility
Tucson, Arizona

Dedication of new Evergreen Solar, crystalline silicon String Ribbon manufacturing facility
Waltham, Massachusetts

Dedication of new AstroPower manufacturing facility
Newark, Delaware

Dedication of expansion of BP Solarex polycrystalline manufacturing facility
Frederick, Maryland

Dedication of expansion of ASE Americans EFG (Edge-Defined Film-Fed Growth) crystalline silicon manufacturing facility
Billerica, Massachusetts

Dedication of a new EPV amorphous silicon manufacturing facility
Sacramento, California

Dedication of Spire module assembly facility
Chicago, Illinois

Efficiency Records, World's Highest PV Conversion Efficiency, September 1999
Others at various unscheduled times

"Under the Sun: An Outdoor Exhibition of Light," Smithsonian Solar Tour, Wendy Butler
Cooper-Hewitt, National Design Museum
Dedication of the Solar Cube at the Discovery Science Center, Solar Design Associates
Santa Ana, California

Dedication of a Solar powered Boy Scout Camp, Solar Design Associates
Up State New York

Dedication of Solar Schools (246)
Various States

School Science Projects

R&D Magazine "100 Most Significant Technical Products of the Year", September 1999

> **Siemens, CEC & NREL high-efficiency CIGSS module** The ST Family of Solar Modules (ST5 and ST10), developed by a research team at Siemens Solar Industries, Camarillo, Calif., is designed for use in 12-V applications. The ST family is composed of a monolithic structure of series-connected copper indium diselenide (CIS)-based solar cells. These multiple-layer cells are characterized by exceptional spectral response and long-term performance integrity. The solar modules are the only commercial thin-film products that meet the DOE's 10% solar module efficiency goal for the year 2000. Actually, the average measured conversion efficiency of a 30-module array at standard test conditions was 11.4%, which is the highest array efficiency for any thin-film technology. This is 40% above its closest competitor.
>
> This technology is much less materials- and energy-intensive than traditional silicon solar technology, but produces comparable efficiency.

Award ceremony, October 19, 1999
Chicago, Illinois

Popular Science "Best of What's New Award"
Solar Design Associates, hybrid PV/Solar Hot Water Heater

Magazine articles

Environmental Design & Construction, July/August 1999

Cover Story: **Toward a New Solar Architecture**, by Steven J. Strong. The U.S. wastes more energy through inefficiency than the world's less developed countries consume in total. Today, photovoltaics convert sunlight directly into electricity, with no moving parts, no deletion of resources, and no waste or emissions. Today, modern solar technology provides the means to move beyond simple efficiency to energy-producing buildings.

World Architect

New Age Magazine

Discover Magazine

Popular Science

Apparently the 'Best of What's New' is a two-step process. The combined PV/T collector has been selected for publication in the upcoming "What's New" section of Popular Science and will likely appear in the November issue. We have requested the editor include mention of the DOE support in the write-up. The PV/T collector is also being considered as a candidate for the annual 'Best of What's New' issue.

Building Design and Construction

Home Power, August/September 1999

Products developed under the PVMaT project are included in a recent 2-page advertisement in the August/September 1999 edition of *Home Power*. The advertisement, placed by Alternative Energy Engineering, includes photos and descriptions of Ascension Technologies' SunSine AC module and Solar Electric Specialties' UL-listed prepackaged MAPPS systems.

IEEE Spectrum Magazine, September 1999

Cover Story: **Photovoltaics gaining greater visibility** by John P. Benner & Lawrence Kazmerski; Established as a reliable source of electricity in small, out-of-the-way applications photovoltaics technology is looming larger in public awareness as systems are installed in large urban centers. A range of techniques is under development, ranging from the tried-and-true single-crystal silicon to materials rolled out in sheets.

The Borrows Guide to Financing Solar Energy Systems
The Colorado consumer's Guide to Buying a Solar Electric System

Department of Defense, Department of Interior, Department of Agriculture, National Parks Service, National Forest Service, Bureau of Land Management, Environmental Protection Agency, Department of Education, Federal Emergency Management Agency,

11th International PV Science and Engineering Conference, September 20 - 24, 1999
Sapporo City, Japan